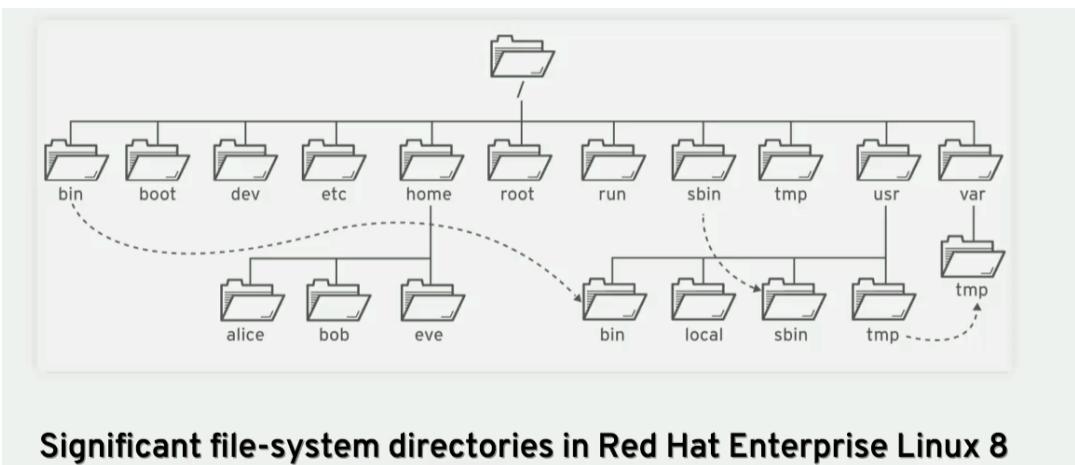


```
m.  
0 ~]$ # foundation -=> classroom -=> bastion -=> servera
```

## 命令行管理文件

file命令查看文件类型



### Significant file-system directories in Red Hat Enterprise Linux 8

```

1  $ ls -ld /root /home/kiosk
2  $ ls -ld /etc/httpd/conf/httpd.conf /var/www
3  $ ls -ld /dev/nvme0n1p2 /mnt/boot
4  $ ls -ld /bin /usr/bin /sbin /usr/sbin
5  $ ls -ld /boot /tmp
6  $ ls -ld /run /proc   ^
7  $ ls -ld /usr/local|

```

ID		
1	/root	用户目录-管理员
1	/home/username	用户目录-普通用户
2	/etc	等等 - 配置文件 (系统、服务)
2	/var	参数 - log、ftp、http
3	/dev	设备
3	/mnt	挂载点
4	/bin	命令 - 用户

4	/sbin	命令 - 管理员
5	/boot	启动 - 系统 (kernel, initram, grub2-efi.cfg grub2.cfg)
5	/tmp	临时 - 系统
6	/run	关机后为空 - 系统 (pid)
6	/proc	关机后为空 - 系统 (进程目录, 系统信息)
7	/usr/local	本地相关 (编译, 手册)

绝对相对路径

路径是否以根开头

```
1 # cd /
2 # cd /etc
3 # cd /var
```

bash

```
1 # cd log
2 # cd ~
3 # cd -
4 # cd .
5 # cd ..
```

#### Hint - 提示

make directory  
move, remove  
copy  
partition=inode+block

≡ ≡ ≡

	file	folder
创建	touch	mkdir -p
改名	mv	mv
移动	mv	mv
拷贝	cp	cp -r
删除	rm	rm -r

```
'    π ls -a /tmp/folder
8    # cp /folder/file /tmp
9    # ls /tmp/file
10
11   # mv /tmp/folder /home
12   # ls -d /tmp/folder /home/folder
13   # mv /tmp/file /home
14   # ls /home/file
15   # mv /home/folder /home/wjj
16   # mv /home/file /home/wj
17
18   # rm -r /home/wjj
```

\*n

```
1   # rm /home/wj ↵
```

```
1   # rm -rf /folder
2   # \rm -r /folder
```

硬连接只允许同一个分区内，索引一样是同一个文件。程序多开，防止文件被删除

软连接只是一个符号连接

## 通配符写法

```
1 # ls /folder/
2 # touch /folder/{a..c}{1..3}.txt
3 # ls /folder/
4 # ls /folder/*.txt
5 # ls /folder/?3*
6 # ls /folder/a*
7
8 # ls /folder/?[23]*
9
10 # ls /folder/?[^23]*
11 # ls /folder/?![^23]*
12
13 # ls /folder/{a1,b3}*
14
15 # ls /folder/[a-z]*
16 # ls /folder/[:alpha:]*
17 # ls /folder/[a-zA-Z]*
18 # ls /folder/[:lower:]*
```

```
1 # touch /root/${date +%y%m%d}.bk
2 # touch /root/`date +%Y%m%d`.bk
```

```
[root@foundation0 ~]# mkdir folder
[root@foundation0 ~]# touch folder/{a..c}{1..3}.txt
[root@foundation0 ~]# ls folder/
a1.txt a2.txt a3.txt b1.txt b2.txt b3.txt c1.txt c2.txt c3.txt
[root@foundation0 ~]#
```

```
[root@foundation0 ~]# touch folder/{a..c}{1..3}.txt
root@foundation0 ~]# ls folder/
l.txt a2.txt a3.txt b1.txt b2.txt b3.txt c1.txt c2.txt c3.txt
root@foundation0 ~]#
root@foundation0 ~]# ls folder/*.txt
older/a1.txt folder/a3.txt folder/b2.txt folder/c1.txt folder/c3.txt
older/a2.txt folder/b1.txt folder/b3.txt folder/c2.txt
root@foundation0 ~]#
root@foundation0 ~]# ls folder/a*.txt
older/a1.txt folder/a2.txt folder/a3.txt
root@foundation0 ~]#
root@foundation0 ~]# ls folder/?3*
older/a3.txt folder/b3.txt folder/c3.txt
root@foundation0 ~]#
root@foundation0 ~]# ls folder/?[13]*
older/a1.txt folder/b1.txt folder/c1.txt
older/a3.txt folder/b3.txt folder/c3.txt
root@foundation0 ~]#
```

```
[root@foundation0 ~]# ls folder/?[^13]*
folder/a2.txt folder/b2.txt folder/c2.txt
[root@foundation0 ~]#
```

```
[root@foundation0 ~]# ls folder/?![13]*
folder/a2.txt folder/b2.txt folder/c2.txt
[root@foundation0 ~]#
```

```
[kiosk@foundation0 test]$ ls [!a,b]*
A1.txt A3.txt B1.txt B3.txt c1.txt c2.txt c3.txt c4.txt d1.txt d2.txt d3.txt d4.txt
A2.txt A4.txt B2.txt B4.txt C1.txt C2.txt C3.txt C4.txt D1.txt D2.txt D3.txt D4.txt
```

一脚和一棒子都可以表示非

```
[root@foundation0 ~]# ls folder/{a3,b1}*
folder/a3.txt folder/b1.txt
```

一位用方括号，两位用花括号

```
[root@foundation0 ~]# ls folder/[a-z]*
folder/a1.txt folder/a3.txt folder/b2.txt folder/c1.txt folder/c3.txt
folder/a2.txt folder/b1.txt folder/b3.txt folder/c2.txt
[root@foundation0 ~]# touch folder/{A..C}{1..3}.bat
[root@foundation0 ~]# ls folder/
A1.bat A2.bat A3.bat B1.bat B2.bat B3.bat C1.bat C2.bat C3.bat
a1.txt a2.txt a3.txt b1.txt b2.txt b3.txt c1.txt c2.txt c3.txt
[root@foundation0 ~]# ls folder/[a-z]*
folder/A1.bat folder/A3.bat folder/B2.bat folder/C1.bat folder/C3.bat
folder/a1.txt folder/a3.txt folder/b2.txt folder/c1.txt folder/c3.txt
folder/A2.bat folder/B1.bat folder/B3.bat folder/C2.bat
folder/a2.txt folder/b1.txt folder/b3.txt folder/c2.txt
[root@foundation0 ~]#
```

- 表示范围 [a-z]包括了大小写

man bash 查看bash用法

```
[kiosk@foundation0 ~]$ echo 1+2*3 |bc  
7
```

```
[kiosk@foundation0 ~]$ echo '(1+2)*3' |bc  
9  
[kiosk@foundation0 ~]$
```

```
100  man --ncap  
101  touch `date +%Y%m%d`.txt  
102  ll -tr  
103  touch `date +%s`.txt  
104  ll -tr
```

```
rw-rw-r--. 1 kiosk kiosk      0 May 30 13:44 20210530.txt  
rw-rw-r--. 1 kiosk kiosk      0 May 30 13:45 1622382310.txt
```